



1645  
RECEIVED  
AUG 28 2002  
TECH CENTER 1600/2900  
AUG 21 2002

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/084,245
Filing Date	February 27, 2002
First Named Inventor	Kennedy
Group Art Unit	1645
Examiner Name	
Total number of pages This Submission	Attorney Docket No. 100/14910

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form (in duplicate) <input type="checkbox"/> Fee Attached <input type="checkbox"/> No Fee Required <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Info. Discl. Stmt. (2 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawings <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): PTO Form 1449 (# pages) 82 references Return Receipt Postcard
---	--	---

### Authorization to Charge Deposit Account

Please charge Deposit Account No. 03-0177 for any additional fees associated with this paper or during the pendency of this application.

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Donald R. McKenna	Reg. No.	44,922
Signature	<i>Donald R. McKenna</i>		
Date	8/16/02		

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on this date: August 16, 2002			
Typed or Printed Name	Michelle Chan		
Signature	<i>Michelle Chan</i>	Date:	August 16, 2002



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to:

Assistant Commissioner for Patents  
Washington, D.C. 20231

August 16, 2002

By Michelle Chan  
Michelle Chan

PATENT  
100/14910

RECEIVED  
AUG 21 2002  
TECH CENTER 1600/2300

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MICHAEL KENNEDY et al.

Application No.: 10/084,245

Filed: February 27, 2002

For: PRIMING MODULE FOR  
MICROFLUIDIC CHIPS

Examiner: Unknown

Art Unit: Unknown

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97  
AND 1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

RECEIVED

AUG 28 2002

TC 1700

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. A copy of each reference is enclosed.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

MICHAEL KENNEDY et al.  
Serial No. 10/084,245  
Page 2

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

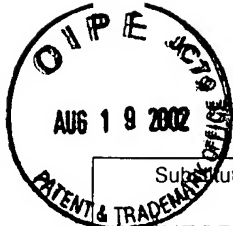
Respectfully submitted,



Donald R. McKenna  
Reg. No. 44,922

CALIPER TECHNOLOGIES CORP.  
605 Fairchild Drive  
Mountain View, CA 94043  
Ph: (650) 623-0700  
Fax: (650) 623-0500

DRM:mc



Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	10/084,245
	Filing Date	February 27, 2002
	First Named Inventor	Kennedy
	Group Art Unit	1645
	Examiner Name	
	Attorney Docket Number	100/14910

RECEIVED  
AUG 21 2002  
PATENT CENTER

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	AA	4,390,403		Batchelder	06-28-1983	
	AB	4,908,112		Pace	03-13-1990	
	AC	5,126,022		Soane et al.	06-30-1992	
	AD	5,498,392		Wilding et al.	03-12-1996	
	AE	5,571,410		Swedberg et al.	11-05-1996	
	AF	5,585,069		Zanzucchi et al.	12-17-1996	
	AG	5,593,838		Zanzucchi et al.	01-14-1997	
	AH	5,603,351		Cherukuri et al.	02-18-1997	
	AI	5,635,358		Wilding et al.	06-03-1997	
	AJ	5,637,469		Wilding et al.	06-10-1997	
	AK	5,699,157		Parce	12-16-1997	
	AL	5,716,852		Yager et al.	02-10-1998	
	AM	5,750,015		Soane et al.	05-12-1998	
	AN	5,800,690		Chow et al.	09-01-1998	
	AO	5,858,187		Ramsey et al.	01-12-1999	
	AP	5,858,195		Ramsey	01-12-1999	
	AQ	5,869,004		Parce et al.	02-09-1999	
	AR	5,876,675		Kennedy	03-02-1999	
	AS	5,880,071		Parce et al.	03-09-1999	
	AT	5,882,465		McReynolds	03-16-1999	
	AU	5,885,470		Parce et al.	03-23-1999	
	AV	5,932,100		Yager et al.	08-03-1999	
	AW	5,942,443		Parce et al.	08-24-1999	
	AX	5,948,227		Dubrow	09-07-1999	
	AY	5,955,028		Chow	09-21-1999	
	AZ	5,958,694		Nikiforov	09-28-1999	
	BA	5,959,291		Jensen	09-28-1999	
Examiner Signature					Date Considered	

RECEIVED  
AUG 28 2002  
TC 1700

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/084,245
Filing Date	February 27, 2002
First Named Inventor	Kennedy
Group Art Unit	1645
Examiner Name	
Attorney Docket Number	100/14910

TECH CENTER 1600/2900

RECEIVED

BB	5,965,410		Chow et al.	10-12-1999	
BC	5,976,336		Dubrow et al.	11-02-1999	
BD	5,989,402		Chow et al.	11-23-1999	
BE	6,001,229		Ramsey	12-14-1999	
BF	6,001,231		Kopf-Sill	12-14-1999	
BG	6,012,902		Parce	01-11-2000	
BH	6,042,709		Parce et al.	03-28-2000	
BI	6,062,261		Jacobson et al.	05-16-2000	
BJ	6,074,725		Kennedy	06-13-2000	
BK	6,100,541		Nagle et al.	08-08-2000	
BL	6,120,666		Jacobson et al.	09-19-2000	
BM	6,221,226		Kopf-Sill	04-24-2001	
BN	6,235,471		Knapp et al.	05-22-2001	
BO	6,280,589		Manz et al.	08-28-2001	

RECEIVED  
AUG 28 2002  
TC 1700

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	BP	WO	9604547		Lockheed Martin	02-15-1996		
	BQ	WO	9702357		Affymetrix, Inc.	01-23-1997		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	BR	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> (1994) 66:1792-1798	
	BS	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> (1993) 65: 2637-2642	
	BT	EFFENHAUSER, C.S. et al., "High Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> (1994) 66: 2949-2953	
	BU	EFFENHAUSER, C.S. et al., "Integrated Capillary Electrophoresis on Flexible Silicone Microdevices: Analysis of DNA Restriction Fragments and Detection of Single DNA Molecules on Microchips," <u>Anal. Chem.</u> (1997) 69: 3451-3457	
Examiner Signature		Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	10/084,245
	Filing Date	February 27, 2002
	First Named Inventor	Kennedy
	Group Art Unit	1645
	Examiner Name	
	Attorney Docket Number	100/14910

BV	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> (1994) 66:177-184	
BW	FISTER, J.C. III et al., "Counting Single Chromophore Molecules for Ultrasensitive Analysis and Separations on Microchip Devices," <u>Anal. Chem.</u> (1998) 70: 431-437	
BX	HADD, A.G. et al., "Microfluidic Assays of Acetylcholinesterase," <u>Anal. Chem.</u> (1999) 71: 5206-5212	
BY	HARRISON, J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> (1992) 64: 1926-1932	
BZ	HARRISON, J. et al., "Towards Miniaturized Electrophoresis and Chemical Analysis Systems on Silicon: An Alternative to Chemical Sensors*," <u>Sensors and Actuators B</u> (1993) 10: 107-116	
CA	HARRISON, J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> (1993) 261: 895-897	
CB	HARRISON, D.J. et al., "Integrated Electrophoresis Systems for Biochemical Analyses," <u>Solid-State Sensor and Actuator Workshop</u> (1994) 21-24	
CC	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> (1994) 66:1107-1113	
CD	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> (1994) 66: 1114-1118	
CE	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> (1994) 66: 2369-2373	
CF	JACOBSON, S.C. et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> (1994) 66: 4127-4132	
CG	JACOBSON, S.C. et al., "Microchip Electrophoresis with Sample Stacking," <u>Electrophoresis</u> (1995) 16: 481-486	
CH	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> (1995) 67: 2059-2063	
CI	JACOBSON, S.C. et al., "Integrated Microdevice for DNA Restriction Fragment Analysis," <u>Anal. Chem.</u> (1996) 68: 720-723	
CJ	JACOBSON, S.C. et al., "Electrokinetic Focusing in Microfabricated Channel Structures," <u>Anal. Chem.</u> (1997) 69: 3212-3217	
CK	JACOBSON, S.C. et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," <u>Anal. Chem.</u> (1999) 71: 4455-4459	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/084,245
Filing Date	February 27, 2002
First Named Inventor	Kenn dy
Group Art Unit	1645
Examiner Name	
Attorney Docket Number	100/14910

RECEIVED  
AUG 21 2002  
TECHNICAL STAFF/2900

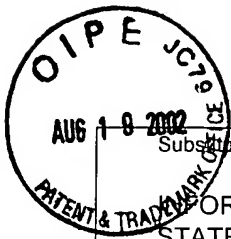
CL	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> (1990) B1: 244-248	
CM	MANZ, A. et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," <u>Trends in Analytical Chemistry</u> (1991) 10:144-149	
CN	MANZ, A. et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques into Monitoring Systems," <u>Journal of Chromatography</u> (1992) 593:253-258	
CO	MANZ, A. et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring,"	
CP	MANZ, A. et al., "Electroosmotic Pumping and Electrophoretic Separations for Miniaturized Chemical Analysis Systems," <u>J. Micromach. Microeng.</u> (1994) 4: 257-265	
CQ	MANZ, A. et al., "Parallel Capillaries for High Throughput in Electrophoretic Separations and Electroosmotic Drug Discovery Systems," <u>International Conference on Solid-State Sensors and Actuators</u> (1997) 915-918	
CR	McCORMICK, R.M. et al., "Microchannel Electrophoretic Separations of DNA in Injection-Molded Plastic Substrates," <u>Anal. Chem.</u> (1997) 69: 2626-2630	
CS	MOORE, A.W. et al., "Microchip Separations of Neutral Species via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> (1995) 67: 4184-4189	
CT	RAMSEY, J.M. et al., "Microfabricated Chemical Measurement Systems," <u>Nature Medicine</u> (1995) 1:1093-1096	
CU	SALIMI-MOOSAVI, H. et al., "Biology Lab-on-a-Chip for Drug Screening," <u>Solid-State Sensor and Actuator Workshop</u> (1998) 350-353	
CV	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> (1993) 65:1481-1488	
CW	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> (1994) 66:3485-3491	
CX	UEDA, M. et al., "Imaging of a Band for DNA Fragment Migrating in Microchannel on Integrated Microchip," <u>Materials Science and Engineering C</u> (2000) 12:33-36	
CY	WANG, C. et al., "Integration of Immobilized Trypsin Bead Beds for Protein Degestion within a Microfluidic Chip Incorporating Capillary Electrophoresis Separations and an Electrospray Mass Spectrometry Interface," <u>Rapid Commun. Mass Spectrom.</u> (2000) 14:1377-1383	
CZ	WOOLLEY, A.T. et al., "Ultra-High-Speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips," <u>Proc. Natl. Acad. Sci. USA</u> (1994) 91:11348-11352	
DA	WOOLLEY, A.T. et al., "Functional Integration of PCR Amplification and Capillary Electrophoresis in a Microfabricated DNA Analysis Device," <u>Anal. Chem.</u> (1996) 68: 4081-4086	

TC 1700  
AUG 28 2002

RECEIVED

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/084,245
Filing Date	February 27, 2002
First Named Inventor	Kennedy
Group Art Unit	1645
Examiner Name	
Attorney Docket Number	100/14910

TECH CENTER 1500/2000

AUG 21 2002

RECEIVED

DB	WOOLLEY, A.T. et al., "High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips," <u>Anal. Chem.</u> (1997) 69:2181-2186	
DC	WOOLLEY, A.T. et al., "Capillary Electrophoresis Chips with Integrated Electrochemical Detection," <u>Anal. Chem.</u> (1998) 70: 684-688	
DD	ZHANG, B. et al., "Microfabricated Devices for Capillary Electrophoresis-Electrospray Mass Spectrometry," <u>Anal. Chem.</u> (1999) 71:3258-3264	

RECEIVED  
AUG 28 2002  
TC 1700

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.